

CLAIMS

1. A communication system comprising:

a control component; and

a data network configured to communicate packets of information intermediate an originating location and a terminating location, the originating location being configured to receive a QSIG communication including a content portion and a signaling portion, wherein the data network is configured to communicate the signaling portion to the control component and the control component is configured to establish a connection within the data network intermediate the originating location and the terminating location responsive to the signaling portion, and wherein the data network is further configured to communicate the content portion of the communication within a plurality of packets intermediate the originating location and the terminating location using the connection.

2. The system of claim 1 further comprising an originating network access device coupled with the originating location and configured to tunnel the signaling portion to the control component.

3. The system of claim 1 wherein the data network comprises an originating network access device and a terminating network access device respectively coupled with the originating location and the terminating location, and the control component is configured to configure the originating network access device and the terminating network access device to establish the connection within the data network responsive to the signaling portion.

4. The system of claim 1 wherein the data network comprises an originating network access device and terminating network access device respectively coupled with the originating location and the terminating location and individually configured to convert the content portion and the signaling portion intermediate a continuous data stream format and a packet format.

5. The system of claim 1 wherein the data network comprises an originating network access device and a terminating network access device respectively coupled with the originating location and the terminating location, and at least one of the originating network access device and the terminating network access device are individually configured to communicate the content portion using a respective QSIG bearer channel and the signaling portion using a QSIG data channel.

6. The system of claim 1 wherein the data network comprises an originating network access device and a terminating network access device respectively coupled with the originating location and the terminating location, and further comprising an originating QSIG device coupled with the originating network access device and a terminating QSIG device coupled with the terminating network access device.

7. The system of claim 1 wherein the data network comprises an originating network access device and a terminating network access device respectively coupled with the originating location and the terminating location, and further comprising an originating QSIG device coupled with the originating network access device and a terminating non-QSIG device coupled with the terminating network access device.

8. The system of claim 1 wherein the data network comprises an originating network access device configured to encapsulate the content portion and the signaling portion into a plurality of packets for communication using the data network.

9. The system of claim 1 wherein the control component is configured to map the signaling portion from a QSIG access protocol to another signaling protocol.

10. The system of claim 1 wherein the control component is configured to communicate the signaling portion to the terminating location using the data network.

11. The system of claim 1 further comprising a private branch exchange coupled with the data network and configured to partition inter-PBX communications from existing PBX communications and to formulate the QSIG communication comprising an inter-PBX communication after the partitioning.

12. A communication system comprising:

an originating network access device configured to receive a continuous QSIG communication and including a continuous content portion and a continuous signaling portion and to convert the continuous content portion and the continuous signaling portion into a plurality of respective content packets and signaling packets;

a terminating network access device;

a control component; and

a data network coupled with the control component and having an originating location coupled with the originating network device and a terminating location coupled with the terminating network access device and the data network being configured to communicate the content packets and signaling packets, wherein the originating

network device is configured to tunnel the signaling packets to the control component and the control component is configured to establish a connection within the data network intermediate the originating location and the terminating location responsive to the signaling packets, and the data network is configured to communicate the content packets of the communication intermediate the originating location and the terminating location using the connection.

13. The system of claim 12 wherein the control component is configured to configure the originating network access device and the terminating network access device to establish the connection within the data network responsive to the signaling packets.

14. The system of claim 12 wherein the control component is configured to map signaling data of the signaling packets from the QSIG access protocol to another signaling protocol and to communicate the signaling packets to the terminating network access device using the data network after the mapping.

15. A QSIG communications method comprising:

receiving a QSIG communication comprising a content portion and a signaling portion within a data network configured to communicate data within a plurality of packets intermediate an originating location and a terminating location;

forwarding the signaling portion of the communication to a control component using the data network;

establishing a connection within the data network intermediate the originating location of the data network and the terminating location of the data network using the control component and responsive to the forwarding; and

communicating the content portion of the communication within a plurality of packets intermediate the originating location and the terminating location using the connection within the data network.

16. The method of claim 15 wherein the forwarding comprises tunneling the signaling portion to the control component.

17. The method of claim 15 wherein the establishing comprises configuring an originating network access device and a terminating network access device using the control component to establish the connection within the data network.

18. The method of claim 15 further comprising converting the content portion and the signaling portion intermediate a continuous data stream format and a packet format before the communicating.

19. The method of claim 15 further comprising converting the content portion and the signaling portion intermediate a continuous data stream format and a packet format before and after the communicating.

20. The method of claim 15 further comprising mapping the signaling portion from a QSIG access protocol to another signaling protocol.

21. The method of claim 15 wherein the receiving comprises receiving the content portion using a QSIG bearer channel and receiving the signaling portion using a QSIG data channel.

22. The method of claim 15 further comprising encapsulating the content portion and the signaling portion into a plurality of packets before the forwarding and the communicating.

23. The method of claim 15 further comprising partitioning inter-PBX communications and existing communications and communicating the communication comprising an inter-PBX communication to the data network after the partitioning.

24. The method of claim 15 further comprising:
originating the communication using an originating QSIG device; and
receiving the communication using a terminating QSIG device after the communicating.

25. The method of claim 15 further comprising:
originating the communication using an originating QSIG device; and
receiving the communication using a terminating non-QSIG device after the communicating.

26. A QSIG communications method comprising:
providing a data network coupled with an originating network access device, a terminating network access device and a control component, the data network being configured to communicate a plurality of packets;
formulating a communication comprising a content portion and a signaling portion in accordance with the QSIG access protocol;

encapsulating the content portion and the signaling portion of the communication using the originating network access device providing a plurality of respective content packets and signaling packets;

tunneling the signaling packets from the first network access device to the control component using the data network;

establishing a connection within the data network intermediate the originating network access device and the terminating network access device using the control component after the tunneling; and

communicating the content packets from the originating network access device to the terminating network access device using the data network after the establishing.

27. The method of claim 26 wherein the establishing comprises configuring an originating network access device and a terminating network access device using the control component to establish the connection within the data network.

28. The method of claim 26 further comprising mapping the signaling portion from a QSIG access protocol to another signaling protocol, and communicating the signaling portion to the terminating network access device after the mapping.